

BACCALAUREUS TECHNOLOGIAE: ARCHITECTURAL TECHNOLOGY

(Field of specialisation: Technology)
Qualification code: BTAQ95 - NQF Level 7

Campus where offered: Pretoria Campus

Important notification to new applicants:

Students who intend to enrol for this qualification should take note that no new applications will be accepted as from 2020. Potential students are advised to consult the University's website for possible new qualifications which are aligned with the newly-implemented Higher Education Qualification Sub-Framework.

REMARKS

- a. *Admission requirement(s):*
A National Diploma: Architectural Technology or an equivalent qualification.
- b. *Selection criteria:*
Admission is subject to selection.
- c. *Minimum duration:*
One year.
- d. *Presentation:*
Day classes. Classes and assessments may take place on Friday afternoons and/or Saturdays.
- e. *Intake for the qualification:*
January only.
- f. *Exclusion and readmission:*
See Chapter 2 of Students' Rules and Regulations.
- g. *Recognition of Prior Learning (RPL), equivalence and status:*
See Chapter 30 of Students' Rules and Regulations.
- h. *Subject credits:*
Subject credits are shown in brackets after each subject.

Key to asterisks:

- * Information does not correspond to information in Report 151.
(Deviations approved by Senate in March 2009.)

CURRICULUM

SUBJECTS PRINTED IN BOLD ARE NOT FOR REGISTRATION PURPOSES.

YEAR SUBJECTS

Subjects must be taken in the combinations and in the sequence indicated. The following rules will apply:

- ARA400T, CDG40PT and CDG40QT must be taken concurrently.
- CDL40PT and CDL40QT must be taken concurrently.
- STW40PT and STW40QT must be taken concurrently.

CODE	SUBJECT	CREDIT
ARA400T	Advanced Computer Applications IV	(0,100)
CDG400T	Computer-Aided Draughting IV	
CDG40PT	Computer-Aided Draughting: Computer Hardware IV	(0,050)



CDG40QT	Computer-Aided Draughting: Network Systems IV	(0,050)
CDL400T	Construction and Detailing IV	
CDL40PT	Construction and Detailing: Construction Methods IV	(0,050)
CDL40QT	Construction and Detailing: Construction Materials IV	(0,050)
LWC410T	Law and Contract Management IV*	(0,050)
OFF400T	Office Practice IV	
OFF40PT	Office Practice: Architectural Practice IV	(0,050)
OFF40QT	Office Practice: Business Management IV	(0,050)
PJG420T	Project Management IV*	(0,050)
STW400T	Studio Work IV	
STW40PT	Studio Work: Contract Documentation IV	(0,300)*
STW40QT	Studio Work: Specification IV	(0,200)*
TOTAL CREDITS FOR THE QUALIFICATION:		1,000

SUBJECT/MODULE INFORMATION (OVERVIEW OF SYLLABUS)

The syllabus content is subject to change to accommodate industry changes. Please note that a more detailed syllabus is available at the Department or in the study guide that is applicable to a particular subject. On 13 October 2017, the syllabus content was defined as follows:

A

ADVANCED COMPUTER APPLICATIONS IV (ARA400T)

CONTINUOUS ASSESSMENT

(Subject custodian: Department of Architecture)

Visual communication and presentation software, website design and maintenance. (Total tuition time: ± 24 hours)

C

COMPUTER-AIDED DRAUGHTING: COMPUTER HARDWARE IV (CDG40PT)

CONTINUOUS ASSESSMENT

(Subject custodian: Department of Architecture)

An overview of all the current terminology, concepts and basics of computing hardware. Hardware support and software support for different operating systems. (Total tuition time: ± eight hours)

COMPUTER-AIDED DRAUGHTING: NETWORK SYSTEMS IV (CDG40QT)

CONTINUOUS ASSESSMENT

(Subject custodian: Department of Architecture)

Current and emerging networking hardware basics and terminology. Operating system set-up for networking. Data security and maintaining networks. Basic network-related software support skills. (Total tuition time: ± eight hours)

CONSTRUCTION AND DETAILING: CONSTRUCTION MATERIALS IV (CDL40QT)

CONTINUOUS ASSESSMENT

(Subject custodian: Department of Architecture)

Cement, concrete and cementitious products. Metals: corrosion, joining, ferrous and non-ferrous metals. Bricks and blocks: clay, concrete and earth. Timber: defects and protection, products. Polymers, plastics and rubbers. Mastics. Composite materials: external cladding, wood products. Paint systems. Adhesives. (Total tuition time: ± 21 hours)



CONSTRUCTION AND DETAILING: CONSTRUCTION METHODS IV (CDL40PT)

CONTINUOUS ASSESSMENT

(Subject custodian: Department of Architecture)

Bricks and blocks. Timber structures. Detailing. Geotechnical investigations. Roofs. Sustainable building methods. Thermal behaviour of buildings. Surface water drainage. Solar energy. Building systems (Agrément certificate). Building services. Regulations (SANS 10400 and NHBCR). (Total tuition time: ± 21 hours)

L

LAW AND CONTRACT MANAGEMENT IV (LWC410T)

CONTINUOUS ASSESSMENT

(Subject custodian: Department of Architecture)

Contract law – basic concepts, such as contract documentation. Basic principles of South African common law. Arbitration. Construction law. Building contract. Principles of property law – forms of ownership. Tender procedures – forms of tender. Certificates. Sectional titles. Land Tenure Act. Principles of bankruptcy and liquidations. Nominated subcontractors. Laws governing the built environment. Case studies. (Total tuition time: ± 21 hours)

O

OFFICE PRACTICE: ARCHITECTURAL PRACTICE IV (OPF40PT)

CONTINUOUS ASSESSMENT

(Subject custodian: Department of Architecture)

The services and duties of the professional practitioner of architecture as defined by the Architectural Profession Act, 2000 (Act No. 44 of 2000) and the SACAP Board Notice 154 of 2009 (the Code of Professional Conduct). Specific themes include time as a resource, managing projects and clients, as well as post-completion responsibilities. (Total tuition time: ± 21 hours)

OFFICE PRACTICE: BUSINESS MANAGEMENT IV (OPF40QT)

CONTINUOUS ASSESSMENT

(Subject custodian: Department of Architecture)

Office organisation, including managing oneself, the team and the business in the architectural profession. Marketing and generating an income while establishing new business avenues. (Total tuition time: ± 10 hours)

P

PROJECT MANAGEMENT IV (PJG420T)

CONTINUOUS ASSESSMENT

(Subject custodian: Department of Architecture)

Management approaches. The business environment. Personnel management. Financial management. Risk analysis. Financial viability studies. IT integration. Decision-making and problem solving. Corporative communication. Small business management. Politics, ethics and social responsibility. Case studies. (Total tuition time: ± 14 hours)

S

STUDIO WORK: CONTRACT DOCUMENTATION IV (STW40PT)

CONTINUOUS ASSESSMENT

(Subject custodian: Department of Architecture)

A module integrated with Construction Methods and Materials to produce a complete set of working drawings on selected design projects. (Total tuition time: ± 224 hours)

STUDIO WORK: SPECIFICATION IV (STW40QT)

CONTINUOUS ASSESSMENT

(Subject custodian: Department of Architecture)

An introduction to the National Building Specifications (NBS) software package (or other approved software). Preparation of on-screen specifications for the building industry. Integrated with Contract Documentation. (Total tuition time: ± 15 hours)

